



SLOVENSKI STANDARD

SIST EN 12274-6:2018

01-maj-2018

Nadomešča:

SIST EN 12274-6:2002

Tankoplastne prevleke po hladnem postopku - Preskusne metode - 6. del: Količina nanosa

Slurry surfacing - Test methods - Part 6: Rate of application

Dünne Asphaltdeckschichten in Kaltbauweise - Prüfverfahren - Teil 6: Bestimmung der Einbaumasse

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Matériaux bitumineux coulés à froid - Méthode d'essai - Partie 6 : Taux d'épandage

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Ta slovenski standard je istoveten z: EN 12274-6:2018

ICS:

93.080.20 Materiali za gradnjo cest Road construction materials

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en,fr,de

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12274-6

March 2018

ICS 93.080.20

Supersedes EN 12274-6:2002

English Version

Slurry surfacing - Test methods - Part 6: Rate of application

Matériaux bitumineux coulés à froid - Méthode d'essai
- Partie 6: Taux d'épandage

Dünne Asphaltdeckschichten in Kaltbauweise -
Prüfverfahren - Teil 6: Bestimmung der Einbaumasse

This European Standard was approved by CEN on 13 November 2017.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 12274-6:2018) has been prepared by Technical Committee CEN/TC 227 “Road materials”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2018, and conflicting national standards shall be withdrawn at the latest by September 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 12274-6:2002.

Compared with EN 12274-6:2002, the following changes have been made:

- a) Making allowances for residual stocks in 4.1.

This European Standard is one of a series of standards as listed below:

- EN 12274-1, *Slurry surfacing — Test methods — Part 1: Sampling*
- EN 12274-2, *Slurry surfacing — Test methods — Part 2: Determination of residual binder content*
- EN 12274-3, *Slurry surfacing — Test methods — Part 3: Consistency*
- EN 12274-4, *Slurry surfacing — Test methods — Part 4: Determination of cohesion of the mix*
- EN 12274-5, *Slurry surfacing — Test methods — Part 5: Determination of the minimum binder content and wearing resistance*
- EN 12274-6, *Slurry surfacing — Test methods — Part 6: Rate of application*
- EN 12274-7, *Slurry surfacing — Test methods — Part 7: Shaking abrasion*
- EN 12274-8, *Slurry surfacing — Test methods — Part 8: Visual assessment of defects*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

EN 12274-6:2018 (E)**1 Scope**

This European Standard specifies test methods for determination the average rate of application of slurry surfacing in kilograms per square metre (kg/m²).

This European Standard applies to slurry surfacing for roads, airfields and other trafficked areas.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1**rate of application****X**

total mass of slurry surfacing applied divided by the surface of the covered area, determined in kilograms per square metre (kg/m²)

2.2**rate of application without processing water****Y**

mass of slurry surfacing applied (without processing water) divided by the surface of the covered area, determined in kilograms per square metre (kg/m²)

3 Principle

The total mass of slurry surfacing mixture applied to a known area is measured. The mass is determined either by recording each of the mixture constituents separately (see 4.1) or by weighing the slurry surfacing machine and determining its mass both before and after laying the slurry surfacing mixture (see 4.2)

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4 Procedure**4.1 Methods based on the separate recording of the constituents**

For a given surface area covered, record the masses of the constituents:

- with the delivery tickets. Make an allowance for quantities of residual stocks where appropriate.
- with continuous recordings, if the slurry surfacing machine is fitted with continuously operating devices to weigh the mass or to measure the volume of the constituents (transform the volume recordings into masses using the density of each constituent).

Calculate the sum of the masses of the used constituents, *M*, in kilograms (kg).

Measure the surface area covered, *A*, in square metres (m²).

Calculate the rate of application *X* or *Y*, in kilograms (kg), using one of the following formulae:

$$X = M / A$$

where

- X* is the rate of application of slurry surfacing, expressed in kilograms (kg/m²);
- M* is the sum of the total masses of all the used constituents, expressed in kilograms (kg);
- A* is the covered area expressed in square metres (m²).

$$Y = M' / A$$

where

Y is the rate of application of slurry surfacing without processing water, expressed in kilograms (kg/m^2);

M' is the sum of the masses of all the used constituents without processing water, expressed in kilograms (kg);

A is the covered area expressed in square metres (m^2).

4.2 Methods based on weighing the slurry surfacing machine

The total rate of application for slurry surfacing can be checked on site by weighing the slurry machine using a fixed or mobile system.

Determine the quantity of slurry surfacing materials laid by a machine, M in kilograms (kg), by using the following formula:

$$M = M_2 - M_1$$

where

M_1 is the mass in kilograms (kg) of the machine after laying

M_2 is the mass in kilograms (kg) of the machine before laying

Measure the surface area covered, A in square metres (m^2).

Calculate the total rate of application X , in kilograms (kg), using the following formula:

$$X = M / A$$

where

X is the rate of application of slurry surfacing, expressed in kilograms (kg/m^2);

M is the sum of the masses of all the used constituents, expressed in kilograms (kg);

A is the covered area expressed in square meters (m^2).

For weighing the slurry machine using a portable system, weighing shall be performed on ground with a resultant slope (crossfall and gradient) smaller than 3 % (under conditions according to the operating manual of the balance).

The portable weighing system shall comprise at least two connected plates, so as to be able to weigh each axle at one time. The size of the plates shall be such that the double wheels can pass over them. The minimum capacity of the weighing system shall be 15 000 kg. The limit deviation shall be ± 25 kg for axles up to 2 500 kg, and ± 50 kg for axles up to 15 000 kg. The system shall provide a recording of the mass per axle as well the date and hour. A printer may be used to provide hard copies.

5 Test report

The report shall contain:

- a) reference to this European Standard;
- b) any deviation from the procedure described in the standard;

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- c) date of application;
- d) location;
- e) procedure used (4.1 or 4.2);
- f) masses of all used constituents, expressed in kilograms (kg);
- g) Sum of the masses of the used constituents, expressed in kilograms (kg): M or M';
- h) Covered area expressed in square metres: A (m²);
- i) rate of application of slurry surfacing: X or Y, expressed in kilograms (kg/m²);
- j) name and signature of person conducting test.

Optional information:

- k) The binder content of the bituminous emulsion;
- l) The water content of the slurry surfacing;
- m) The theoretical formulation of the slurry surfacing.

6 Precision

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Statistical repeatability and reproducibility information is not known.

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